

New Continuation Application
Attorney Docket No. 238761US-90CONT
Preliminary Amendment filed herewith
Inventors: Yasutaka Ito, et al.

IN THE CLAIMS

Claims 1-11 (Canceled).

Claim 12 (New): A ceramic heater comprising a ceramic plate and a heating element formed on a surface of said ceramic plate or inside thereof, said ceramic heater being equipped with:

a temperature-measuring element for measuring the temperature of said ceramic plate;

a control unit for supplying electric power to said heating element;

a memory unit for memorizing the data of a temperature measured by said temperature-measuring element; and

an operation unit for calculating electric power required for said heating element from said temperature data,

wherein:

a bottomed hole is made, being directed from the opposite side to a heating surface for heating an object to be heated, toward the heating surface;

the bottom of said bottomed hole is formed relatively nearer to the heating surface than the heating element;

and a temperature-measuring element is set up in said bottomed hole.

Claim 13 (New): The ceramic heater according to Claim 12,

wherein said heating element is divided into at least two circuits and different electric powers are supplied to the respective circuits.

Claim 14 (New): The ceramic heater according to Claim 12,

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wherein said temperature-measuring element is a sheath type thermocouple.

Claim 15 (New): The ceramic heater according to Claim 12,
wherein said temperature-measuring element is pressed on the bottom portion of the
bottomed hole.

Claim 16 (New): The ceramic heater according to Claim 12,
wherein said temperature-measuring element is pressed on the bottom portion of said
bottomed hole by means of an elastic body or a screw.

Claim 17 (New): The ceramic heater according to Claim 12,
wherein said temperature-measuring element is sealed in the bottomed hole with an
insulator.